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				Application Number	10/822,492
				Filing Date	April 12, 2004
				First Named Inventor	CRANE et al.
				Art Unit	3744
				Examiner Name	NORMAN, Marc E.
Sheet	1	of	1	Attorney Docket Number	20712-0088

U.S. PATENT DOCUMENTS					
Examiner Initials *	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (# known)			
ME	A	US- 2004/000155 A1	01/01/2004	CLINE et al.	
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	C	US-			
	D	US-			
	E	US-			
	F	US-			
	G	US-			
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		Country Code ³ - Number ⁴ - Kind Code ⁵ (# known)				
ME	1	WO 03/036189 A	05/01/2003	Daikin Industries, Ltd.		
	2	JP 2002181370 A	06/26/2002	Sanyo Electric Co, Ltd.		
	3	JP 10019395	01/23/1998	Ratsuku Rand:KK		

Examiner Signature		Date Considered	11/3/01
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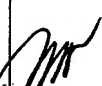

Application Number	10822492
Filing Date	2004-04-12
First Named Inventor	CRANE, et al.
Art Unit	3744
Examiner Name	NORMAN
Attorney Docket Number	20712-0088

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	1	4877388		1989-10-31	Inaba et al.	
	2	5235504		1993-08-10	Sood, Pradeep K.	
	3	5894736		1999-04-20	Beaverson et al.	
	4	2442021		1948-05-04	Rose Herbert A.	
	5	3390320		1968-06-25	Kammiller et al.	
	6	3621365		1971-11-16	Beck et al.	
	7	5896021		1999-04-20	Kumar, Ajith Kuttannair	
	8	6579067	B1	2003-06-17	Holden	



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	9	6459606	B1	2002-10-01	Jadric	
	10	6459596	B1	2002-10-01	Corzine	
	11	6434960	B1	2002-08-20	Rousseau	
	12	6408645	B1	2002-06-25	Tsuboe et al.	
	13	3909687		1975-09-30	Abbondanti	
	14	6325142	B1	2001-12-04	Bosley et al.	
	15	6229722	B1	2001-05-08	Ichikawa et al.	
	16	4150425		1979-04-17	Nagano et al.	
	17	6124697		2000-09-26	Wilkerson	
	18	6031738		2000-02-29	Lipo et al.	
	19	6018957		2000-02-01	Katra et al.	

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	20	6008616		1999-12-28	Nagayama et al.	
	21	5845509		1998-12-08	Shaw et al.	
	22	5528114		1996-06-18	Tokizaki et al.	
	23	5503248		1996-04-02	Peruggi et al.	
	24	5509504		1996-04-23	McHugh et al.	
	25	5492273		1996-02-20	Shah	
	26	5446645		1995-08-29	Shirahama et al.	
	27	5350992		1994-09-27	Colter	
	28	5488279		1996-01-30	Kawamoto et al.	
	29	5010287		1991-04-23	Mukai et al.	
	30	4958118		1990-09-18	Pottebaum	

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<i>MR</i>	31	4787211		1988-11-29	Shaw	
<i>-1</i>	32	4546423		1985-10-08	Seki	
<i>MR</i>	33	4151725		1979-05-01	Kountz et al.	

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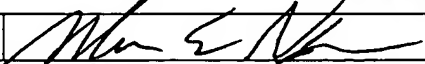
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